

Title (en)

SEMICONDUCTOR DEVICE COMPRISING AN INTEGRATED CIRCUIT PROVIDED WITH A CERAMIC SECURITY COATING AND METHOD OF MANUFACTURING SUCH A DEVICE

Title (de)

HALBLEITERANORDNUNG MIT EINER INTEGRIERTEN SCHALTUNG UND KERAMISCHER SICHERHEITSSCHICHT UND VERFAHREN ZUM HERSTELLEN SOLCHER ANORDNUNG

Title (fr)

DISPOSITIF SEMI-CONDUCTEUR AVEC CIRCUIT INTEGRE A REVETEMENT CERAMIQUE DE SECURITE ET SON PROCEDE DE FABRICATION

Publication

EP 1029347 B1 20070207 (EN)

Application

EP 99921073 A 19990603

Priority

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- EP 98201941 A 19980610
- IB 9901007 W 19990603

Abstract (en)

[origin: WO9965074A2] A semiconductor device comprising a silicon substrate (1) is provided with semiconductor elements (3) on a first side (2), a metallization with connection pads (12) for external contact, and a passivation layer (13) which leaves the connection pads of the metallization exposed. The integrated circuit thus formed is also provided with a ceramic security coating (14) having a matrix of monoaluminium phosphate which also leaves the connection pads of the metallization exposed. The protective layer can be deposited so as to have a thickness in the range from 2 to 10 μm , and hence is suitable for protecting integrated circuits used in smart cards. As a result, the information stored therein is not accessible.

IPC 8 full level

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